



PTO/SB/08a/b (08-03)

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/606,202	
			Filing Date	June 24, 2003	
			First Named Inventor	Andrew D. Firlik	
			Art Unit	3762	
			Examiner Name	R. D. Bradford	
Sheet	1	of	2	Attorney Docket Number	337348046US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
R.D.		2003-0187490	10-02-2003	Bradford Gliner	
		2003-0149457	08-07-2003	Tcheng et al.	
		2002-0087201	07-04-2002	Andrew Firlik	
		4,431,000	<del>12</del> -14-1984	Butler et al.	
		5,054,906	10-08-1991	WILLIAM G. LYONS	
		5,263,967	11-23-1993	WILLIAM G. LYONS	
		5,575,813	11-19-1996	DAVID J. EDELL	
		6,366,813	04-02-2002	DiLorenzo	
		6,463,328	10-08-2002	MICHAEL SASHA JOHN	
		6,622,048	09-16-2003	Carla Mann	
		6,687,525	05-09-2002	Rodolfo Linas	
R.D.		6,690,974	06-20-2002	Archer	2/2004

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
R.D.		WO-WO 03/043690	05-30-2003	Vertis Neuroscience, Inc.	
		WO-WO 03/082402	03-26-2003	Vertis Neuroscience, Inc.	
R.D.		EP-EP 0 998 958-A2	10-05-2000	Medtronic, Inc.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
R.D.		BENABID, A.L. et al, "Chronic electrical stimulation of the ventralis intermedialis nucleus of the thalamus as a treatment of movement disorders," J. Neurosurg., April 1997, 86(4); 737; <a href="http://www.ncbi.nlm.nih.gov">http://www.ncbi.nlm.nih.gov</a> , [accessed 11/18/2003]	
		International Search Report for PCT/US03/39077; May 2004; Applicant: Northstar Neuroscience, Inc. (3 pgs)	
		International Search Report for PCT/US03/03678; July 2003; Applicant: Northstar Neuroscience, Inc. (4 pgs)	
		International Search Report for PCT/US03/39078; May 2004; Applicant: Northstar Neuroscience, Inc. (5 pgs)	
		International Search Report for PCT/US02/31112; December 2002; Applicant: Vertis Neuroscience, Inc. (7 pgs)	
		International Search Report for PCT/US02/31127; July 2003; Applicant: Vertis Neuroscience, Inc. (3 pgs)	
R.D.		International Search Report for PCT/US02/31128; September 2002; Applicant: Vertis Neuroscience, Inc. (6 pgs)	
Examiner Signature	R. D. Bradford		Date Considered 4/25/05



INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
Form PTO-1449 (Modified)  
(Use several sheets if necessary)

COMPLETE IF KNOWN

Application Number	10/606,202
Confirmation Number	4373
Filing Date	June 24, 2003
First Named Inventor	Andrew D. Firlak
Group Art Unit	3762
Examiner Name	Unknown
Attorney Docket No.	33734-8046US

Sheet 4 of 10

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (If known)			
R.D.		6,052,624		Mann	04/18/00	
		6,057,847	6	Sever, Jr.	05/02/00	
		6,058,331		King	05/02/00	
		6,055,456		Gerber	04/25/00	
		6,060,048		Cherksey	05/09/00	
		6,061,593		Fischell et al.	05/09/00	
		6,066,163		John	05/23/00	
		6,104,956		Naritoku et al.	08/15/00	
		6,104,960		Duysens et al.	08/15/00	
		6,122,548		Starkebaum et al.	09/19/00	
		6,126,657		Edwards et al.	10/03/00	
		6,128,537		Rise	10/03/00	
		6,128,538		Fischell et al.	10/03/00	
		6,134,474		Fischell et al.	10/17/00	
		6,152,143		Edwards	11/28/00	
		6,161,044		Silverstone	12/12/00	
		6,161,045		Fischell et al.	12/12/00	
		6,353,754		Fischell et al.	03/05/02	
		6,354,299		Fischell et al.	03/12/02	
		6,360,122		Fischell et al.	03/19/02	
		6,427,086		Fischell et al.	07/30/02	
		6,459,936		Fischell et al.	10/01/02	
R.D.		6,466,822		Pless	10/15/02	

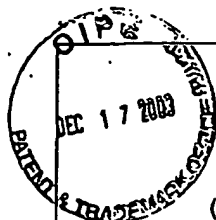
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*R. D. [Signature]*

DATE CONSIDERED

4/25/05

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Examiner Name	Unknown
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		NUMBER	Kind Code (if known)			
R.B.		6,473,639		Fischell et al.	10/29/02	
		6,480,743		Kirkpatrick et al.	11/12/02	
		60/325,872		Sheffield	09/28/01	
		60/325,978		Gliner	09/28/01	
		10/072,700		Firlík	02/07/02	
R.B.		09/978,134		Gliner	10/15/01	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
R.B.		PCT	WO 98/06342		Neotonus, Inc.	02/19/98		
		PCT	WO 95/21591		University of Iowa Research Foundation	17/08/95		
		PCT	WO 01/97906		Advanced Bionics Corp	27/12/01		
		PCT	WO 94/07564		Cardiac Pacemakers, Inc.	14/04/94		
		PCT	WO 87/07511		Zion Educational Foundation	17/12/87		
R.B.		PCT	WO 02/09811		Neuropace, Inc.	<del>07/02/02</del>	2/2002	

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*T. Bealpine*

DATE CONSIDERED

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		Art Unit	3762		
		Examiner Name	R. D. Bradford		
Sheet	1	of	3	Attorney Docket Number	337348046US

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		Number-Kind Code <sup>2</sup> (If known)			
Q.B.		US-4,474,186	10-02-1984	Ledley et al.	
		US-5,121,754	06-16-1992	Mullett	
		US-5,299,569	04-05-1994	Wernicke et al.	
		US-5,314,458	05-24-1994	Najafi et al.	
		US-5,406,957	04-18-1995	Tansey	
		US-5,522,864	06-04-1996	Wallace et al.	
		US-5,674,251	10-07-1997	Combs et al.	
		US-5,772,591	06-30-1998	Cram	
		US-6,035,236	03-07-2000	Jarding et al.	
		US-6,205,360	03-20-2001	Carter et al.	
		US-6,221,908	04-24-2001	Kilgard et al.	
		US-6,339,725	01-15-2002	Naritoku et al.	
		US-6,473,568	<del>03-07-2002</del>	Kashiyama 10/2002	
		US-6,375,666	04-23-2002	Mische	
		US-6,405,079	06-11-2002	Ansarinia	
		US-6,418,344	07-09-2002	Rezai et al.	
		US-6,487,450	11-26-2002	Chen	
		US-6,499,488	12-31-2002	Hunter et al.	
		US-6,505,075	01-07-2003	Weiner	
		US-6,507,755	01-14-2003	Gozani et al.	
		US-2003/0125772	07-03-2003	Olson et al.	
		US-2003/0149457-A1	08-07-2003	Tcheng et al.	
		US-2003/0176901	09-18-2003	May	
		US-2003/0187491	10-02-2003	Greenberg et al.	
		US-6,665,562-A1	12-16-2003	Gluckman et al.	
		US-6,725,094-B2	04-20-2004	Saberski	
		US-2004/0138550-A1	07-15-2004	Hartlep et al.	
		US-6,764,498-B2	07-20-2004	Mische	
		US-2004/0158298	08-12-2004	Gliner et al.	
		US-6,782,292-A1	08-24-2004	Whitehurst	
		US-6,795,737-A1	09-21-2004	Gielen et al.	
Q.B.		US-6,810,286-B2	10-26-2004	Donovan et al.	
Examiner Signature <i>R. Bradford</i>			Date Considered	10/28/05	



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AA		US-2,721,316	10-18-1955	Shaw	
		US-3,628,193	12-21-1971	Collins	
		US-2002/0077670-A1	06-20-2002	Archer et al.	
		US-2002/0091419-A1	07-11-2002	Firlik et al.	
		US-6,839,594-A1	10-31-2002	Cohen et al.	1/2005

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
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		EP-1180056	11-12-2003	Exogen, Inc.		
		DE 19750043	05-20-1999	Bartha et al.		

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AA		BARR, Deborah et al., "Induction and Reversal of Long-Term Potentiation by Low- and High- Intensity Theta Pattern Stimulation," The Journal of Neuroscience, 15(7): pp. 5402-5410 (July 1995)	
		DING, Yuemin et al., "Neural Plasticity After Spinal Cord Injury," Current Pharmaceutical Design Vol. 11, No. 11, pp: 1441-1450, Abstract Only-1 page (April 2005)	
		Cytokines Web Clinical Significance. Cytokines Web, 2 pages. [Retrieved on 9-2-2005]. Retrieved from the Internet: <URL: <a href="http://cmbi.bjmu.edu.cn/cmbidata/cgf/CGF_Database/cytweb/roles/index.html">http://cmbi.bjmu.edu.cn/cmbidata/cgf/CGF_Database/cytweb/roles/index.html</a> >	
		DUNCAN, Pamela W. et al., "Defining post-stroke recovery: implications for design and interpretation of drug trials," Neuropharmacology Vol. 39, pp. 835-841 (2000)	
		FREGNI, Felipe et al., "Anodal Transcranial Direct Current Stimulation of Prefrontal Cortex Enhances Working Memory," Experimental Brain Research Vol. 166, No. 1, pp: 23-30, (September 2005)	

Examiner Signature	<i>Alexander M. De</i>	Date Considered	5/29/06
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MA		US-2003/0074032-A1	04-17-2003	Gliner	
		US-2003/0078633-A1	04-24-2003	Firlik et al.	
		US-2003/0088274-A1	05-08-2003	Gliner et al.	
		US-2003/0097161-A1	05-22-2003	Firlik et al.	
		US-2004/0073270-A1	04-15-2004	Firlik et al.	
		US-2004/0102828-A1	05-27-2004	Lowry et al.	
		US-2004/0111127-A1	06-10-2004	Gliner et al.	
		US-2004/0176831-A1	09-09-2004	Gliner et al.	
		US-2004/0181263-A1	09-16-2004	Balzer et al.	
		US-2004/0215287-A1	10-28-2004	Swoyer et al.	
		US-2004/0249422-A1	12-09-2004	Gliner et al.	
		US-2005/0021105-A1	01-27-2005	Firlik et al.	
		US-2005/0021106-A1	01-27-2005	Firlik et al.	
		US-2005/0021107-A1	01-27-2005	Firlik et al.	
		US-2005/0021118-A1	01-27-2005	Genau et al.	
		US-2005/0033378-A1	02-10-2005	Sheffield et al.	
		US-2005/0070971-A1	03-31-2005	Fowler et al.	
		US-2005/0075679-A1	04-07-2005	Gliner et al.	
		US-2005/0075680-A1	04-07-2005	Lowry et al.	
		US-2006/0015153-A1	01-19-2006	Gliner et al.	
MA		US-6,230,049	05-08-2001	Fischell et al.	
		US-6,236,892	05-22-2001	Feler	
		US-6,633,780	10-14-2003	Berger	
		US-6,892,097-B2	05-10-2005	Holshelmer	
		US-6,959,215-B2	<del>06-10-2004</del>	Gliner et al. 10/2005	
		US-6,990,377-B2	<del>01-06-2005</del>	Gliner et al.	1/2006
		US-7,010,351-B2	<del>07-04-2002</del>	Firlik et al.	3/2006
		US-7,024,247-B2	<del>01-29-2004</del>	Gliner et al.	4/2006

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11/10/05

Examiner Signature	<i>Alyssa M. Allen</i>	Date Considered	5/29/06
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